Contents to Volume 430, Nos. 1–3

Instructions to authors v

Frontiers in Surface and Interface Science ix

Surface Science Letters

Alkali metal (Li, K) induced reconstructions of the W(001) surface
H.W. Kim, J.R. Ahn, J.W. Chung, B.D. Yu and M. Scheffler L515

In-situ observation of an ordered sulfate adlayer on Au(100) electrodes
M. Kleinert, A. Cuesta, L.A. Kibler and D.M. Kolb L521

Self-inhibition of water dissociation on magnesium oxide surfaces
D. Abriou and J. Jupille L527

Oxygen adsorption on Pt(110)-(1 × 2): new high-coverage structures
S. Helveg, H.T. Lorensen, S. Horch, E. Lægsgaard, I. Stensgaard, K.W. Jacobsen, J.K. Nørskov and F. Besenbacher L533

Thermal desorption of surface phosphorus on Si(100) surfaces
F. Hirose and H. Sakamoto L540

Monitoring chemical and physical changes on sub-nanogram quantities of platinum dioxide
T. Thundat and L. Maya L546

Atomic force microscopy of Au deposition from aqueous HF onto Si(111)
C. Rossiter and I.I. Suni L553

Identification of a vibrational Stark shift within an adsorbate layer: NH_3 on Ru(001)
W. Widdra, T. Moritz, K.L. Kostov, P. König, M. Staufer and U. Birkenheuer L558

Surface Science

Enumeration and discrimination of mechanisms in heterogeneous catalysis based on response reactions and unity bond index–quadratic exponential potential (UBI–QEP) method
I. Fishtik, A. Alexander and R. Datta 1

Ab initio cluster model approach to the chemisorption of NH_3 on Pt(111)
M. García-Hernández, N. López, I. de P.R. Moreira, J.C. Paniagua and F. Illas 18

An infrared spectroscopic investigation of thin alumina films: measurement of acid sites and surface reactivity
M. Kaltchev and W.T. Tysoe 29

Strain induced epitaxial relationships of Cr on Co/Pd(111)
S. Boukari, E. Beaurepaire, H. Bulou, B. Carrière, J.P. Deville, F. Scheurer, R. Baudoing-Savois and M. De Santis 37

Probing the adsorption structure of a multifunctional organic molecule: a NIXSW and NEXAFS study of 3-chlorothiophene on Cu(111)
P.K. Milligan, B. Murphy, D. Lennon, B.C.C. Cowie and M. Kadodwala 45

Structure and phase behavior of the Ir(001) surface: X-ray scattering measurements
V. Jahns, D.M. Zehner, G.M. Watson and D. Gibbs 55

The correlation between surface morphology and spectral lineshape: a re-examination of the H–Si(111) stretch vibration
T.A. Newton, J.A. Boiani and M.A. Hines 67

HREELS of H/GaN(0001): evidence for Ga termination
V.J. Bellitto, B.D. Thoms, D.D. Koleske, A.E. Wickenden and R.L. Henry 80

Calculation of an atom–surface scattering model using the S-matrix KVP
L.E. Heidinger 89

Adsorption and thermal chemistry of acrolein and crotonaldehyde on Pt(111) surfaces
J.C. de Jesús and F. Zaera 99

Theoretical study of the Cl-passivated Si(111) surface
A. Ricca and C.B. Musgrave 116

Core-level photoemission study of 2D ordered Bi/Si(100) interfaces
V. Corradini, L. Gavioli and C. Mariani 126

Analysis of electronic contributions to the vibrational frequency of $CO/Cu_2O(111)$
T. Bredow, A.M. Márquez and G. Pacchioni 137

Morphology and composition of Au films on Si(100)
W.C.A.N. Ceelen, M. de Ridder, B. Moest, A.W. Denier van der Gon and H.H. Brongersma 146

The Si(001) c(4 × 4) surface reconstruction: a comprehensive experimental study
H. Nörenberg and G.A.D. Briggs 154

Stabilisation of alkali-adsorbate-induced states on Cu(111) surfaces
A.G. Borisov, A.K. Kazansky and J.P. Gauyacq 165

Hydrogen, sulphur and chlorine coadsorption on Pd(111): a theoretical study of poisoning and promotion
P.A. Gravil and H. Toulhoat 176

Ethylene, sulphur, and chlorine coadsorption on Pd(111): a theoretical study of poisoning and promotion
P.A. Gravil and H. Toulhoat 192

Stacking transformation and defect creation in Cs intercalated TiS_2 single crystals
M. Remškar, A. Popović and H.I. Starnberg 199

XPS study of the displacement of an electrodeposited Cu monolayer on Pt by mercaptopyridines
A. Gutiérrez, C. Alonso, M.F. López and M.L. Escudero 206

A theoretical analysis of adsorption and dissociation of CH_3OH on the stoichiometric $SnO_2(110)$ surface
M. Calatayud, J. Andrés and A. Beltrán 213

Author index 223

Subject index 225

Materials index 229